NOISE IMPACT ANALYSIS

CINGULAR WIRELESS TELECOMMUNICATIONS FACILITY #NS-323 Turman Residence 648 Deer Springs Road San Marcos, California 92069

Prepared For

PLANCOM, INCORPORATED Attention: Karen Adler 302 State Place Escondido, California 92029 Phone: 760-715-3416 Fax: 760-735-4913

Prepared By

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Job #A50522N2

RECEIVED

JUN 16 2006

March 13, 2006

San Diego County DEPT, OF PLANNING & LAND USE

P05-004; ER 05-08-006

EILAR ASSOCIATES ACOUSTICAL & ENVIRONMENTAL CONSULTING

March 13, 2006

Job #A50522N2

PlanCom, Incorporated Attention: Karen Adler 302 State Place Escondido, California 92029 Phone 760-715-3416 Fax 760-735-4913

SUBJECT: NOISE IMPACT ANALYSIS FOR CINGULAR WIRELESS TELECOM FACILITY #NS-323; TURMAN

RESIDENCE, 648 DEER SPRINGS ROAD, SAN MARCOS, CALIFORNIA, 92069

At your request, we have conducted a noise evaluation of the proposed Cingular wireless telecommunications equipment facility #NS-323, to be located at 648 Deer Springs Road in the community of San Marcos, California. Based on the information available, it is our conclusion that, as designed, this facility will be in compliance with the County of San Diego property line noise limit of 45 dBA $L_{\rm EO}$.

Project Setting

The subject property is located at 648 Deer Springs Road, in the County of San Diego, California. The Assessor's Parcel Number is 182-040-6700. The subject parcel is zoned A-70, for limited agricultural use. For a graphic representation of the site, please refer to the Thomas Guide Map, Assessor's Parcel Map, Satellite Aerial Photograph, Topographic Map, and Land Use Map provided as Figures 1 through 5, respectively.

The project site is an existing avocado orchard with an on-site residence. The Cingular wireless lease site is located on a steep hill that has a sharp upward slope to the northeast and downward slope to the southwest. The on-site residence is located to the south and 30 to 40 feet below the proposed site area.

There is an existing un-identified cellular equipment cabinet near the residence. This single cabinet was measured at 57.3 dBA L_{EQ}, 5 feet from the face of the cabinet. Note: Because this single cabinet would be reduced to a compliance level at a distance of 21 feet and 5 dBA below compliance (a level which has minimal additive impact) at 38 feet, this unit will not be further considered.

Project Description

The proposed project consists of the construction of an unmanned Cingular telecommunications facility consisting of eight radio equipment cabinets mounted on a concrete pad. A four-sided, retaining wall with a solid core steel exterior grade door will enclose the cabinets. The equipment cabinets will be oriented along a northeast/southwest line. The planned enclosure is to be 28' 8" long by 12' 8" wide. The total lease site will occupy approximately a 335 square-foot area of the property.

The Cingular antennas will be mounted on a 36-foot high monotree, placed near the southwestern corner of the enclosure. For additional project details, please refer to the project plans provided in Appendix A.

Noise and Sound Level Descriptors

All noise level or sound level values presented herein are expressed in terms of decibels (dB), with A-weighting, abbreviated "dBA," to approximate the hearing sensitivity of humans. Time-averaged noise levels are expressed by the symbol " L_{EQ} ," unless a different time period is specified, " L_{EQ} " is implied to mean a period of one hour. Some of the data may also be presented as octave-band-filtered and/or a-octave-band-filtered data, which are a series of sound spectra centered about each stated frequency, with half of the bandwidth above and half of the bandwidth below each stated frequency. This data is typically used for machinery noise analysis and barrier-effectiveness calculations. Short duration peak noise levels are expressed by the symbol " L_{MAX} ."

The Community Noise Equivalent Level (CNEL) is a 24-hour average, where sound levels during evening hours of 7:00 p.m. to 10:00 p.m. have an added 5 dB weighting, and sound levels during nighttime hours of 10:00 p.m. to 7:00 a.m. have an added 10 dB weighting. This is similar to the Day-Night Sound Level (L_{DN}), which is a 24-hour average with 10 dB added weighting on the same nighttime hours but no added weighting on the evening hours. Sound levels expressed in CNEL are always based on A-weighted decibels. These data unit metrics are used to express noise levels for both measurement and municipal noise ordinances and regulations, for land use guidelines, and enforcement of noise ordinances. Further explanation can be provided upon request.

Noise emission data is often supplied per the industry standard format of Sound Power, which is the total acoustic power radiated from a given sound source as related to a reference power level. Sound Power should not be confused with Sound Pressure, which is the fluctuations in air pressure caused by the presence of sound waves, and is generally the format that describes noise levels as heard by the receiver.

Sound Pressure is the actual noise experienced by a human or registered by a sound level instrument; when Sound Pressure is used to describe a noise source it must specify the distance from the noise source to provide complete information. Sound Power, on the other hand, is a specialized analytical method to provide information without the distance requirement; but it may be used to calculate the sound pressure at any desired distance.

Applicable Noise Standards

The applicable noise regulations for this project are contained within the San Diego County Code, Chapter Four: Noise Abatement and Control. The project site and adjacent land uses are zoned A-70, for limited agricultural use. The most restrictive nighttime (10 p.m. to 7 a.m.) property line noise limit for agricultural and residential land use areas is 45 dBA L_{EQ} .

Instruments

Some or all of the following equipment was used at the site to measure existing noise levels:

- Larson Davis Model 824, Type 1 Sound Level Meter (with windscreen)
- Larson Davis Model CA200, Type 1 Calibrator, Serial #2181
- Digital camera, distance measurement wheel, tripod, wind speed meter, and thermometer

The sound level meter was field-calibrated immediately prior to the noise measurement and checked afterward, to ensure accuracy. All sound level measurements conducted and presented in this report, in accordance with the regulations, were made with a sound level meter that conforms to the American

National Standards Institute specifications for sound level meters ANSI SI.4-1983 (R2001). All instruments are maintained with National Bureau of Standards traceable calibration, per the manufacturers' standards.

Site Inspection

An on-site inspection was conducted at 4:00 p.m. on Monday, July 11, 2005. There was a slight breeze of 2-3 miles per hour from the west, the humidity was moderate, and the temperature was in the upper-70's.

An ambient noise measurement of 49.7 dBA L_{EQ} was taken during the on-site inspection. The present on-site noise environment is a result of vehicle traffic traveling on Deer Springs Road.

Sensitive Receptors

Only the on-site residence and the closest property lines (east and north) are considered to be the most impacted areas. The following list identifies the location and its distance from the project site:

On-site residence - 70 feet
Northern property line - 143 feet
Eastern property line - 97 feet
Southern property line - 1,300 feet
Western property line - 220 feet

Similar Equipment Noise Emission Measurements

Cingular may utilize either of two different types of equipment cabinets on this site; the RBS 2102 and RBS 2106 units. Noise levels for these two cabinets have been measured at several operation facilities. The measurements have provided nearly identical operational noise levels. The cabinets proposed for this facility are believed to utilize the same basic cooling systems. The following RBS 2106 equipment cabinet measurement was the loudest equipment noise measurement was made between the two different operational unit types; it will be used to present a worst-case analysis.

Noise levels of an existing, operational RBS 2106 equipment cabinet were measured at 3:00 p.m. on April 8, 2004, at a Cingular wireless facility located at 2190 Carmel Valley Road in Del Mar (City of San Diego), California. The Assessors Parcel Number for this property is 301-081-26-00. The single RBS 2106 equipment cabinet was mounted on a 5-foot square concrete pad, located on the eastern side of an existing commercial office building. The unit was mounted approximately 6 inches in front of the building wall. The following noise levels are typical of the unit, where it is mounted adjacent to a wall. Table 1 is considered to represent a worst-case scenario, incorporating wall reflection. The Table presents the actual noise emission levels of the single RBS 2106 cabinet unit measurement, along with the calculated octave data for a four-cabinet equipment noise level, to simulate the proposed 8 cabinet system noise impacts associated with the Cingular "Turman Residence" installation.

Table 1. Noise Measurement of Single Free Field Cingular RBS 2106 Cabinet (at 5 feet) and Calculated Noise Level of Eight-Cabinet Installation									
Octave Band Center Frequency (Hz)	63	125	250	500	1K	2K	4K	8K	dBA L _{EQ}
Measured S _{PL} (dB L _{EQ})	64.4	61.2	55.3	47.0	45.9	42.2	44.0	34.6	53.0
Eight Cabinets S _{PL} (dB L _{EQ})	73.4	70.2	64.3	56.0	54.9	51.2	53.0	37.6	62.1

The similar equipment noise emission levels were measured with a Larson Davis Model 824, Type 1 Sound Level Meter, Serial #342 (with windscreen) and Larson Davis Model CA200, Type 1 Calibrator, Serial #2181. The sound level meter was field-calibrated immediately prior to the noise measurements and checked afterwards, to ensure accuracy. The Larson Davis 824 sound level meter was mounted on a tripod in front of the RBS 2106 cabinet, at a distance of approximately five feet.

Noise emission analysis based on the RBS 2106 equipment cabinet is equally valid for the RBS 2012 unit. For the purpose of this analysis, all conclusions may be used interchangeably for either unit.

Analysis

The proposed facility will be operational 24-hours a day, 7-days a week; therefore, the most restrictive noise planning will be based on the County of San Diego nighttime property line noise limit of 45 dBA L_{EO} .

Table 2. Calculated Cingular Installation Noise Levels (dBA L _{EQ}) Based on 8 Cabinets Producing 62.1 dBA L _{EQ} at 5 Feet						
Noise Sensitive Areas	Planning Distance (feet)	Calculated Noise (dBA L _{EQ})				
On-Site	70	39.2				
North Property Line	143	33.0				
East Property Line	97	36.3				
South Property Line	1,300	13.8				
West Property Line	220	29.2				

Mitigation

No additional mitigation is required for the site. As designed, the proposed Cingular Wireless site will be in compliance with the County of San Diego noise limits. The proposed 8 cabinet wireless installation will have minimal noise impacts to the on-site residence and to the adjacent property lines.

Conclusions and Recommendations

As a result of this acoustical impact study, the proposed Cingular Wireless facility will be in compliance with all applicable property line noise limits.

These conclusions and recommendations are based on the best information available. However, noise characteristics of mechanical equipment are normally determined in laboratory tests and may vary for specific installations. Verification of compliance with County of San Diego noise regulations can be provided, if desired, by conducting a noise survey consisting of sound level measurements at or close to the nearest impacted locations in each direction, after the project is built and in operation. This is best accomplished in the late night or very early morning hours while the equipment is in full operation and other noise sources are minimized. If any additional sound attenuation is found to be necessary, it can be specified at that time. We do not expect any additional sound attenuation will be necessary.

Certification

This report is based on the information received and related measured noise levels, and it represents a true and factual analysis of the acoustical issues associated with the proposed Cingular Wireless Telecommunications Facility #NS-323 Turman Residence, at 648 Deer Springs Road San Marcos, County of San Diego, California. This report was prepared by Charles Terry and Douglas Eilar.

EILAR ASSOCIATES

Charles Terry, Mechanical Engineer

Douglas K. Eilar, Principal

Figures

- 1. Thomas Guide Map
- 2. Assessor's Parcel Map
- 3. Satellite Aerial Photograph
- 4. Topographic Map
- 5. Land Use Map

Appendices

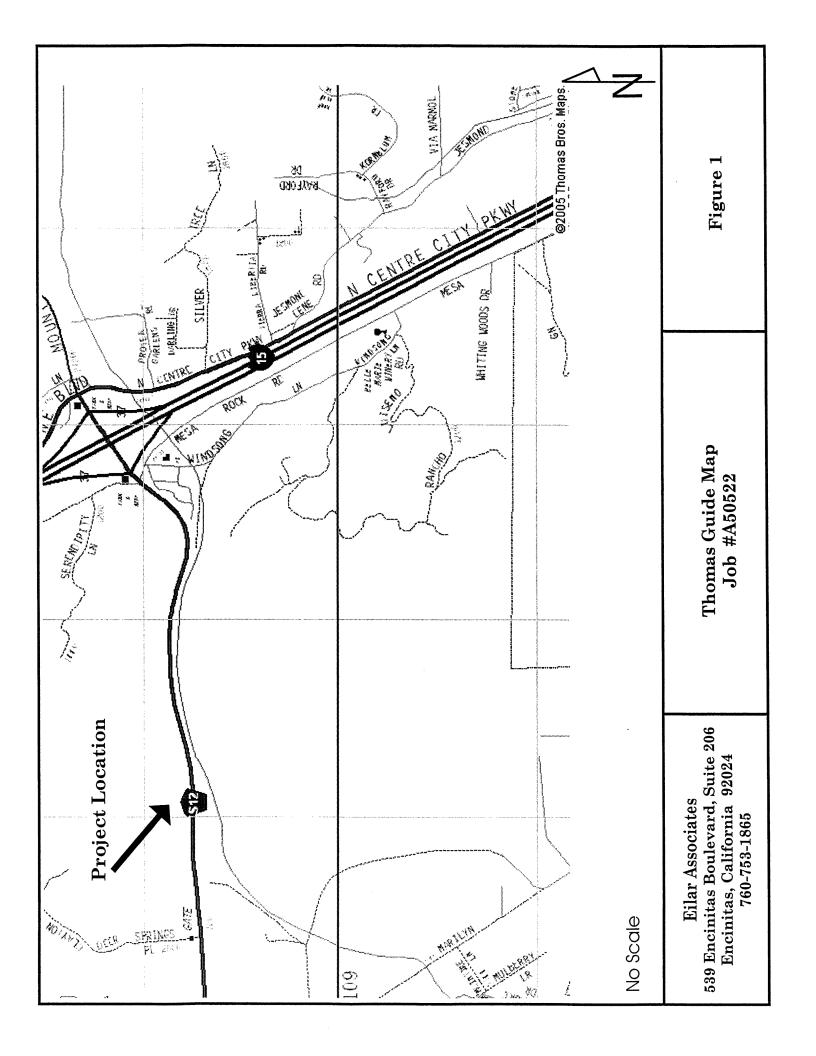
- A. Site Plans for Cingular #NS-323
- B. Pertinent Sections from the County of San Diego Noise Ordinances

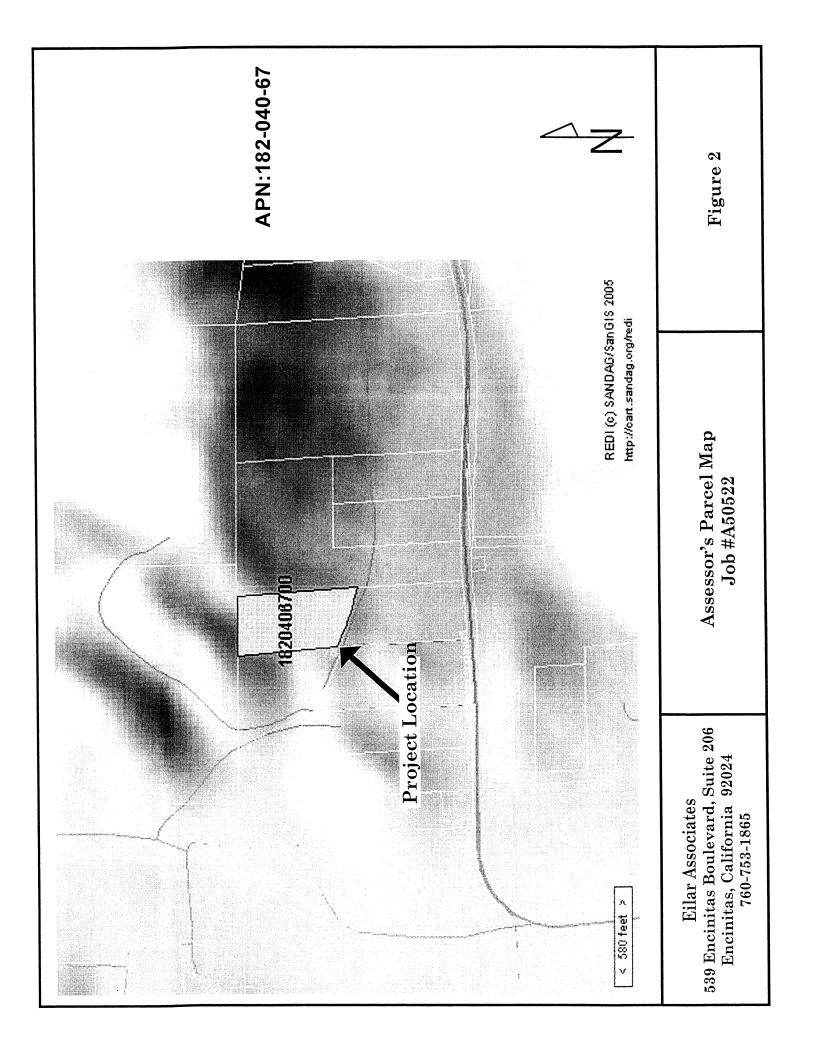
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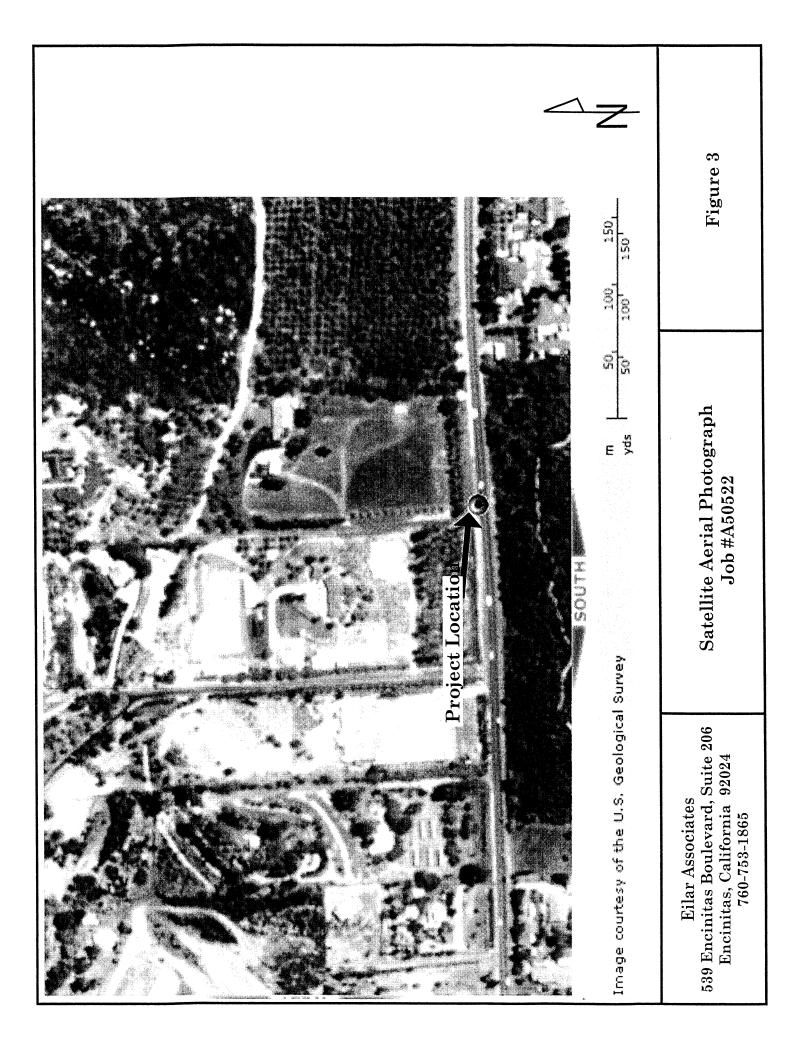
Beranek, Leo L., Acoustical Measurements, Published for the Acoustical Society of America by the American Institute of Physics, Revised Edition, 1988.

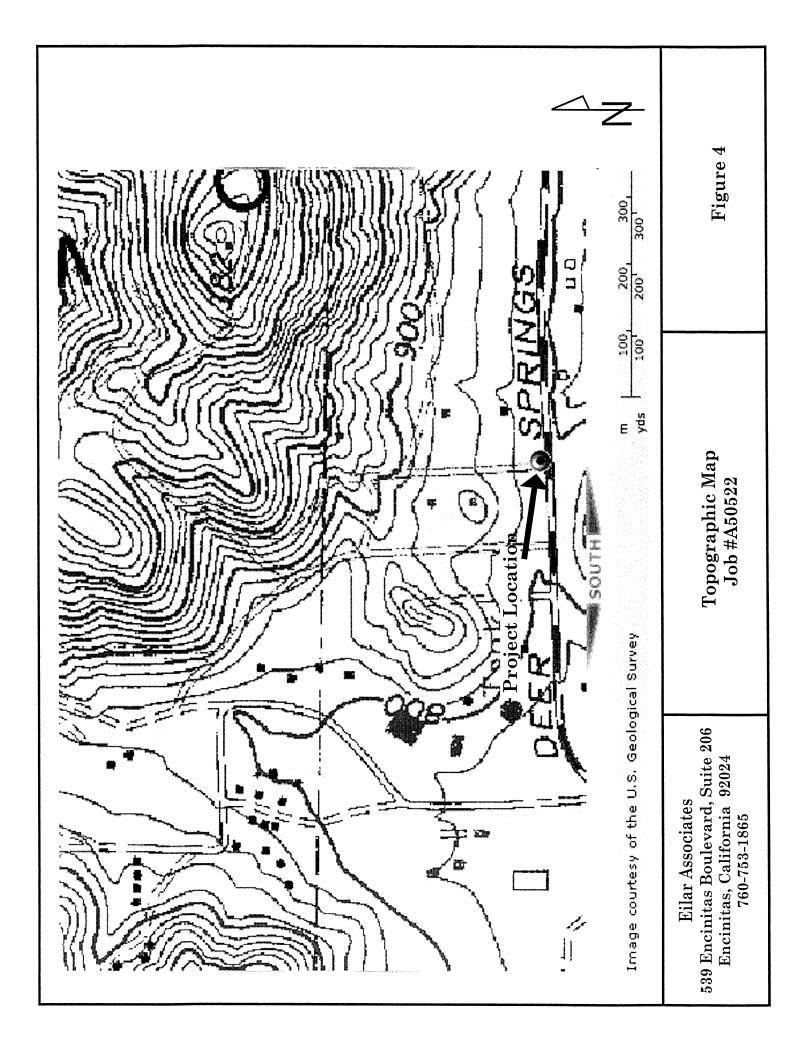
Harris, Cyril M., Handbook of Acoustical Measurements and Noise Control, Acoustical Society of America, 3rd Edition, 1998.

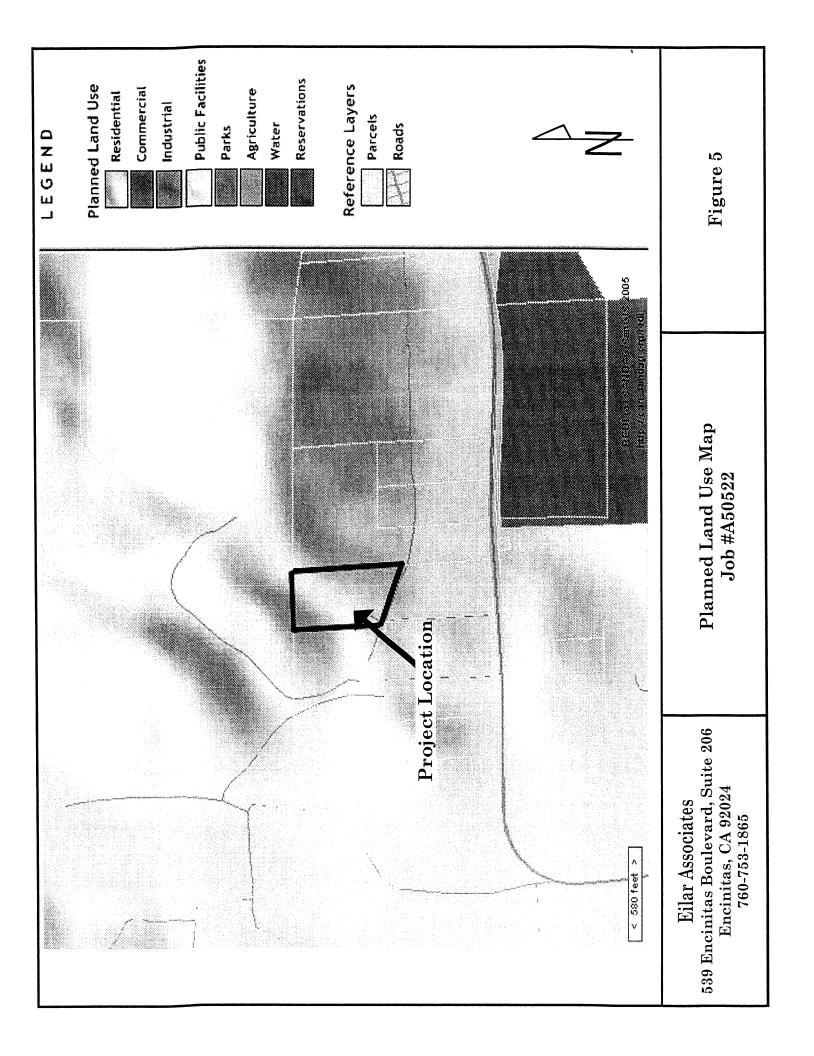








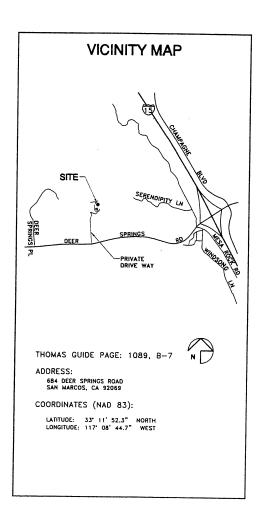




APPENDIX A
Site Plans

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TURMAN RESIDENCE 684 DEER SPRINGS ROAD SAN MARCOS, CA 92069 NS-323-01



ACCESSIBILITY DISCLAIMER

THIS PROJECT IS AN UNOCCUPIED WIRELESS PCS TELECOMMUNICATIONS FACILITY AND, ACCORDING TO WRITTEN INTERPRETATION FROM THE CALIFORNIA DEPARTMENT OF THE STATE ARCHITECT, IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

CONSULTANT TEAM

ARCHITECT:

WILLIAM BOOTH & ROBERT SUAREZ ARCHITECTURE & PLANNING P.O. BOX 4651 CARLSBAD, CA 92018 (760) 434-8474 (760) 434-8596 (FAX)

ELECTRICAL CONSULTANT:

WALTER D. CAMP. ELECTRICAL ENGINEER , PE 1880 SHEEP RANCH LOOP CHULA VISTA, CA. 91913 (619) 934-1815

SURVEYOR:

CHRISTENSEN ENGINEERING AND SURVEYING 7888 SILVERTON AVENUE, SUITE J SAN DIEGO, CA 92128 (858) 271-9901

PROJECT SUMMARY

APPLICANT:

CINGULAR WIRELESS 6160 CORNERSTONE CT., SUITE 150 SAN DIEGO, CA 92121 (858) 642-9441

ARLEN TURMAN 684 DEER SPRINGS ROAD SITE CONTACT: ARLEN TURMAN

PROJECT DESCRIPTION:

- INSTALLATION OF EIGHT OUTDOOR BASE TRANSCEIVER EQUIPMENT CABINETS ON A CONCRETE PAD INSIDE A SPLIT-FACE BLOCK RETAINING ENCLOSURE
- INSTALLATION OF THREE ANTENNA SECTORS, OF FOUR ANTENNAS EACH (TOTAL OF 12 ANTENNAS) MOUNTED TO A PROPOSED 35"-0" HIGH MONOTREE
- INSTALLATION OF NEW 200 AMP ELECTRICAL SERVICE PROVIDE NEW UNDERGROUND TELCO SERVICE CONNECTION FROM EXISTING UTILITY POLE
- INSTALL COAXIAL CABLE IN CONDUIT TO PROPOSED MONOBROADLEA! TREE

LEGAL DESCRIPTION:

PARCEL A:
PARCEL 1 OF PAPCEL MAP NO. 1944, IN THE COUNTY OF SAN
DIEGO, STATE OF CALIFORNIA, FILED IN THE OFFICE OF THE
COUNTY RECORDER OF SAN DIEGO COUNTY, SEPTEMBER 27,
1973 AS FILE NO. 73–273098 OF OFFICIAL RECORDS.

PARCEL B:
AN EASEMENT FOR ROAD AND UTILITY PURPOSES OVER THE
WEST 30.00 FEET 0: PARCEL 2 OF PARCEL MAP NO. 1944, IN
THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, FILED IN
THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY
JUNE 7, 1978 AS IILE NO. 73-273098 OF OFFICIAL RECORDS.

PROJECT ADDRESS: 684 DEER SPRINGS ROAD SAN MARCOS, CA 92069

ASSESSORS PARCEL NUMBER: 182-040-67

EXISTING ZONING:

A-70

EXISTING SITE AREA:

338 SQ. FT.

PROPOSED PROJECT AREA: TYPE OF CONSTRUCTION:

PROPOSED OCCUPANCY:

NONE (EXTERIOR EQUIPMENT CABINETS ONLY)

SHEET SCHEDULE

TITLE SHEET AND PROJECT DATA

A-0 SITE PLAN AND GENERAL SPECIFICATIONS

ENLARGED SITE PLAN AND ANTENNA PLAN A-2

A-3 MONOTREE DETAILS

C-1

SCALE

THE DRAWING SCALES SHOWN IN THIS SET REPRESENT THE CORRECT SCALE ONLY WHEN THESE DRAWINGS ARE PRINTED IN A 24 $^{\prime}$ x 36 $^{\prime\prime}$ Format, if this drawing set is not 24 $^{\prime\prime}$ x 36 $^{\prime\prime}$, this set is not to scale.

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES: CALIFORNIA STATE BUILDING CODE, TITLE 24, 2001 EDITION CALIFORNIA PLUMBING CODE. 2001 EDITION CALIFORNIA MECHANICAL CODE, 2001 EDITION CALIFORNIA ELECTRICAL CODE, 2001 EDITION IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL



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6160 CORNERSTONE CT., SUITE 150 SAN DIEGO, CA 92121

APPROVALS DATE DATE CONSTRUCTION DATE SITE ACQUISITION DATE OWNER APPROVAL

TURMAN RESIDENCE

PROJECT NUMBER

NS-323-01

684 DEER SPRINGS ROAD SAN MARCOS, CA 92069 SAN DIEGO COUNTY

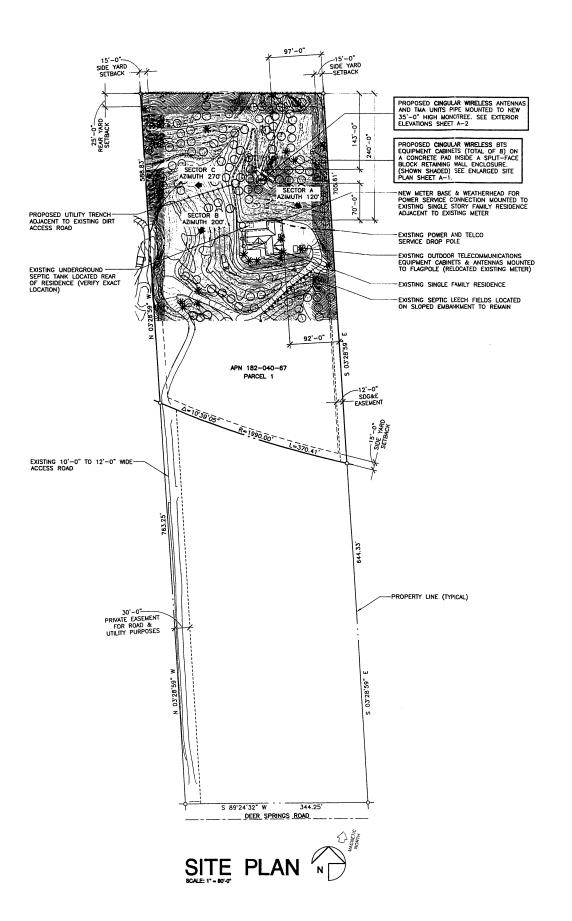
DRAWING DATES

PRELIM ZD REVIEW (rai) FINAL ZD REVIEW (rai)

SHEET TITLE

TITLE SHEET

 $PROJECTS \ cingular \ \ 05015zd \ \ \ 05015zT1.dwg$



GENERAL SPECIFICATIONS

CINGULAR WIRELESS TELECOMMUNICATIONS TRANSMITTER FREQUENCIES AND POWER LEVELS:

THE PROJECT BOUNDARY SHOWN ON THIS DRAWING IS APPROXIMATE AND IS SHOWN FOR REFERENCE ONLY. A BOUNDARY SURVEY WAS NOT PERFORMED.

COUNTY OF SAN DIEGO CONTROL STATION ROS13928 PT#1069". ELEVATION: 1016.97' MEAN SEA LEVEL (N.G.V.D. 1929).

EASEMENTS SHOWN REFLECT PRELIMINARY RECORDS RESEARCH OF RECORDED PARCEL MAPS. EASEMENTS ARE SUBJECT TO REVIEW OF FINAL TITLE REPORT

BOUNDARY NOTE:

- 25. ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED.

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DESIGN DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CINCULAR WIRELESS IS STRICTLY PROHIBITED.



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6160 CORNERSTONE CT., SUITE 150 SAN DIEGO, CA 92121

	
APPROVALS	
R.F.	DATE
ZONING	DATE
CONSTRUCTION	DATE
SITE ACQUISITION	DATE
OWNER APPROVAL	DATE
PROJECT NAM	E

TURMAN RESIDENCE

PROJECT NUMBER

NS-323-01

684 DEER SPRINGS ROAD SAN MARCOS, CA 92069 SAN DIEGO COUNTY

DRAWING DATES

02/28/05 PRELIM ZD REVIEW (ral) 03/04/05 FINAL ZD REVIEW (ral)

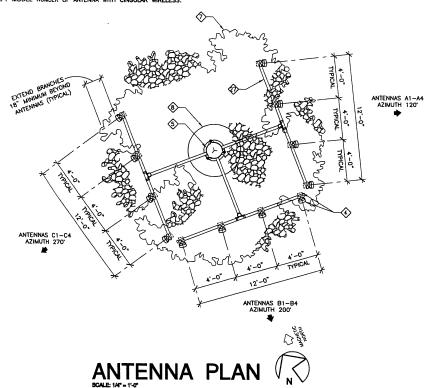
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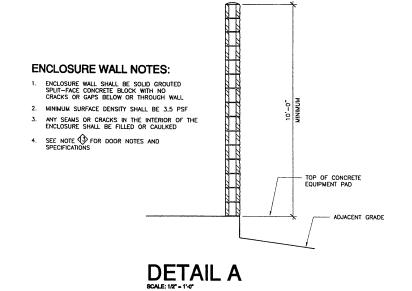
SITE PLAN **GENERAL SPECIFICATIONS**

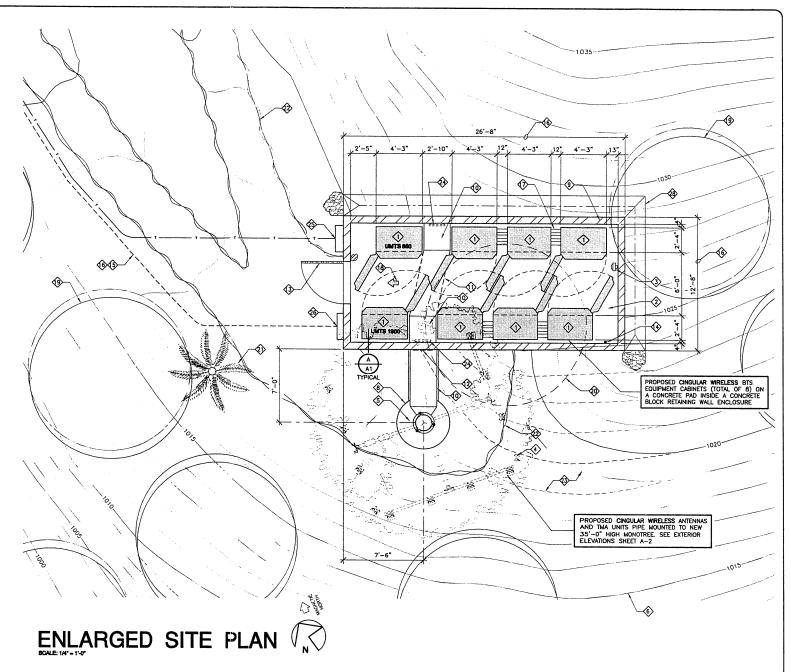
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			ANTE	NNA A	ND CO	AXIAL CABLE SCHEDULE				
SECTOR ANTENNA	DIRECTION	AZIMUTH	ANTENNA MODEL NUMBER	DOWNTILT	SKEW	SERIAL NUMBER	NUMBER OF CABLES PER SECTOR	COAX. CABLE LENGTH (+ / - 5')	LENGTH	COAX SIZE
A1			CSS XDU04-80-V				1			
A2	EAST	120	CSS X0U04-80-V	ا ـ ا						
A3	EASI	120	CSS XDU04-80-V	ď	N/A		8	55'-0"	6'-0"	7/8"
A4			CSS XDU04-80-V	1	l			1 1		
B1			CSS XDU04-80-V	0 N/			8	55'-0"	6'-0"	7/8"
B2	SOUTH	200	CSS X0U04-80-V							
B3	5001H	200	CSS X0U04-80-V	1 "	N/A					
B4			CSS X0U04-80-V	1 1						
C1			CSS X0U04-80-V							
C2	WEST	270'	CSS X0U04-80-V		0 N/A		8	55'-0"	60-	7/8"
C3	HE31	2/0	CSS X0U04-80-V	1 "						
C4			CSS XDU04-80-V				1			
	ı	GPS	KATHREIN OG-860/1920/GPS-A				2	20'	-	1/2"

- 1. FIELD VERIFY ALL CABLE LENGTHS PRIOR TO ORDERING CABLE
- VERIFY ROUTE AND LENGTH OF CABLE PRIOR TO CUTTING. ADJUST INDICATED ROUTE AS REQUIRED TO CLEAR EXISTING OBSTRUCTIONS AND MAINTAIN REQUIRED CLEARANCE OF EXISTING EQUIPMENT.
- 3. VERIFY MODEL NUMBER OF ANTENNA WITH CINGULAR WIRELESS.







KEYED NOTES:

- PROPOSED CINGULAR WIRELESS BTS EQUIPMENT CABINETS MOUNTED ON BATTERY BASE FRAME (TYPICAL OF 8 TOTAL) CABINET WEIGHT 2619 LBS. EACH. BTS LIMITS SHALL BE "ERICSSON" RBS 2106 OUTDOOR CABINETS OR EQUIVALENTLY SIZED UNITS EACH WITH A MAXIMUM 1—HOUR SOUND PRESSURE LEVEL OF 53 DECIBELS (dBA) AT A REFERENCE DISTANCE OF 5 FEET OR LESS.
- 2 PROPOSED CONCRETE PAD FOR CINGULAR WIRELESS BTS EQUIPMENT
- \$\sqrt{3}\ SWITCH OPERATED LIGHT FIXTURE MOUNTED TO ENCLOSURE WALL, (TYPICAL OF 2)
- $\begin{tabular}{lll} \begin{tabular}{lll} \begin{$
- \$ PROPOSED 35'-0" HIGH MONOTREE
- 6 EXISTING SLOPED EMBANKMENT WITH CONTOURS AT 1'-0" INTERVALS
- APPROXIMATE OUTLINE OF MONOTREE AT ANTENNA LEVEL
- 8 PROPOSED CONCRETE MONOTREE FOOTING
- PROPOSED SPLIT-FACE CONCRETE BLOCK RETAINING WALL (NOISE CONTROL ELEMENT) SEE DETAIL "A/A1"
- PROPOSED GALVANIZED SHEET METAL CABLE SHROUD ON A CONCRETE APRON
- PROPOSED COAX CABLE TRENCH WITH (5) 4" PVC CONDUITS PROPOSED COAX CABLE PORT

- PROPOSED 4'-0" WIDE x 7'-0" HIGH SOLID CORE 16 GA. GALVANIZED STEEL CLAD DOOR WITH GALVANIZED WELDED STEEL FRAME AND ALJUMINUM THRESHOLD. DOOR FRAME AND HIRESHOLD SHALL HAVE STOPS THAT OVERLAP THE DOOR ON ALL EDGES. THOSE OVERLAPS SHALL BE SOUND SEALED WITH U/V RESISTANT URETHANE FOAM TAPE. SEE DETAILS "1/A3" & "2/A3"
- PROPOSED E-911/GPS ANTENNA MOUNTED TO ENCLOSURE WALL
- PROPOSED UTILITY TRENCH (TELCO & ELECTRICAL)
- REMOVE EXISTING ROCKS AND SHRUBS AS REQUIRED TO INSTALL TRENCHES AND EQUIPMENT ENCLOSURE
- (3) 3"# RIGID CONDUIT BETWEEN BTS CABINETS (TYPICAL)
- SLOPE CONCRETE PAD MINIMUM 1% FOR DRAINAGE
- (9) EXISTING TREES TO REMAIN (TYPICAL)
- REMOVE EXISTING TREE (SHOWN DASHED)
- EXISTING PALM TREE TO REMAIN (TYPICAL)
- EDGE OF EXISTING DIRT ACCESS ROAD. EXTEND AT PROPOSED EQUIPMENT ENCLOSURE.
- MODIFY GRADE SLOPE FOR NEW DIRT PAD AT MONOTREE LOCATION

- APPROXIMATE LOCATION OF GROUND BUS BAR INSIDE CABLE SHROUD
- PROPOSED TELCO SPLICE BOX UNISTRUT MOUNTED TO ENCLOSURE WALL
- PROPOSED "BENJAMIN" COMBINATION ELECTRICAL SUB-PANEL, GENERATOR LUG CONNECTION, AND MANUAL TRANSFER SWITCH MOUNTED TO ENCLOSURE WALL
- PROPOSED MONOTREE ANTENNA SUPPORT CROSS ARMS & FRAMES
- PROPOSED CONCRETE BROW DITCH WITH ROCK RIP-RAP DIVERTER AT END OF BROW DITCH



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6160 CORNERSTONE CT., SUITE 150 SAN DIEGO, CA 92121

APPROVALS	
R.F.	DATE
ZONING	DATE
CONSTRUCTION	DATE
SITE ACQUISITION	DATE
OWNER APPROVAL	DATE

PROJECT NAME

TURMAN RESIDENCE

PROJECT NUMBER

NS-323-01

684 DEER SPRINGS ROAD SAN MARCOS, CA 92069 SAN DIEGO COUNTY

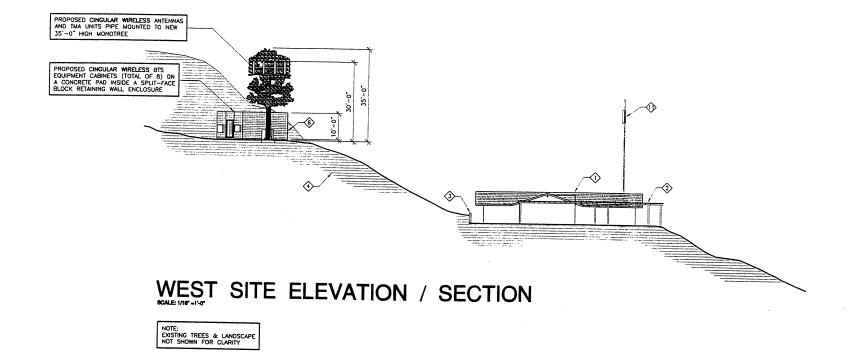
DRAWING DATES

PRELIM ZD REVIEW (rai) FINAL ZD REVIEW (rai)
PLANNING COMMENTS (jab)

SHEET TITLE

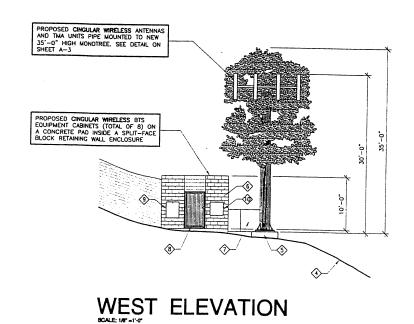
ENLARGED SITE PLAN

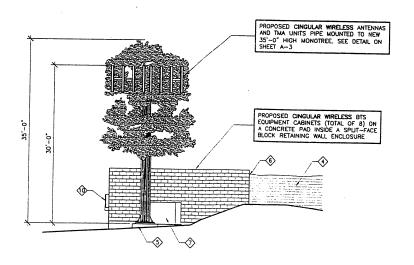
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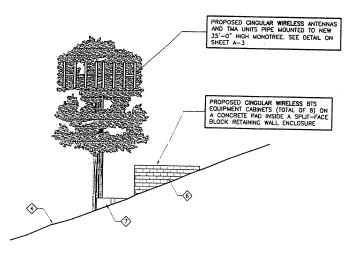


KEYED NOTES

- EXISTING SINGLE FAMILY RESIDENCE
- EXISTING WOOD TRELLIS . RESIDENCE
- 3 EXISTING STONE WALL
- EXISTING SLOPED EMBANKMENT
- \$ PROPOSED CONCRETE MONOTREE FOOTING
- 6 PROPOSED CONCRETE BLOCK RETAINING WALL
- PROPOSED CALVANIZED SHEET METAL CABLE SHROUD ON A CONRETE APRON
- PROPOSED WROUGHT IRON GATE
- PROPOSED TELCO SPLICE BOX UNISTRUT MOUNTED TO ENCLOSURE WALL
- EXISTING 48'-0" FLAG POLE WITH TELECOMMUNICATIONS ANTENNAS







SOUTH ELEVATION

EAST ELEVATION

NOTE: EXISTING TREES & LANDSCAPE NOT SHOWN FOR CLARITY



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6160 CORNERSTONE CT., SUITE 150 SAN DIEGO, CA 92121

APPROVALS	
R.F.	DATE
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TURMAN RESIDENCE

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684 DEER SPRINGS ROAD SAN MARCOS, CA 92069 SAN DIEGO COUNTY

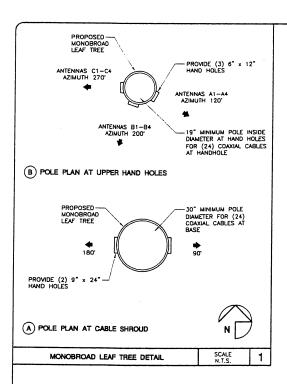
DRAWING DATES

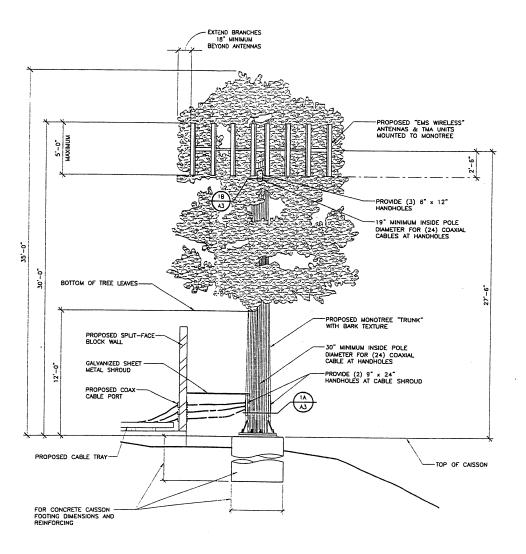
PRELIM ZD REVIEW (rai) FINAL ZD REVIEW (rai)

SHEET TITLE

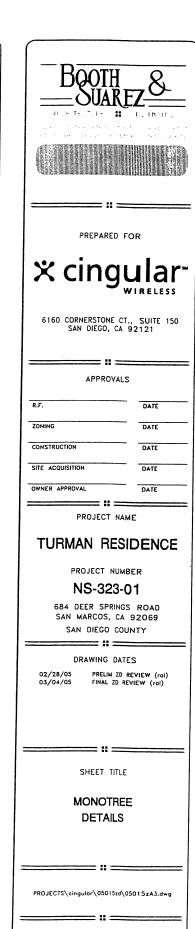
EXTERIOR ELEVATIONS

PROJECTS\cingular\05015zd\05015zA2.dwg





MONOTREE DETAIL



SCALE 1"= 20' PARCENI CHRISTENSEN ENGINEERING & SURVEYING

SHEET 1 OF 1 SHEET

CINGULAR WIRELESS

TURMAN RESIDENCE - NS-323-01 684 DEER SPRINGS ROAD SAN MARCOS, CA 92069

LEGAL DESCRIPTION

PARCEL A
PARCEL OF PARCEL MAP NO. 1944, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA,
PILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, SEPTEMBER 27, 1973
AS FILE NO. 73-273098 OF OFFICIAL RECORDS.
PARCEL B
AN BASEMENT FOR ROAD AND UTILITY PURPOSES OVER THE WEST 30.00 FEET OF PARCEL 2
OF PARCEL MAP NO. 1944, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, FILED IN
THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY JUNE 7, 1978 AS FILE NO.
73-273098 OF OFFICIAL RECORDS.

BASIS OF BEARINGS

IS GRID NORTH BASED UPON G.P.S. OBSERVATIONS.

BENCHMARK

COUNTY OF SAN DIEGO CONTROL STATION ROS13928 PTW1069". ELEVATION 1016.97" MEAN SEA LEVEL (N.G.V.D. 1929).

NOTES

- 1. BASEMENTS, AGREEMENTS, DOCUMENTS AND OTHER MATTERS WHICH AFFECT THIS PROPERTY MAY EXIST, BUT CANNOT BE PLOTTED. SEE TITLE REPORT.

 2. THE PRECISE LOCATION OF UNDERGROUND UTILITIES COULD NOT: BE DETERMINED IN THE FIELD. PRIOR TO ANY EXCAVATION UTILITY COMPANIES WILL NEED TO MARK-OUT EXACT UTILITY LOCATIONS.
- 3. THE ASSESSOR PARCEL NUMBER FOR THE SUBJECT PROPERTY IS 182-040-67.
- 4. THE ADDRESS FOR THE SUBJECT PROPERTY IS 684 DEER SPRINGS R.D., SAN MARCOS, CA.
- 5. THE AREA OF THE SUBJECT PROPERTY IS 5.16 ACRES.

SURVEYOR'S STATEMENT

CHRISTENSEIN ENGINEERING & SURVEYING HEREBY STATES THAT THE SURVEYING SER-VICES PROVIDED FOR THE SURVEY WERE CONDUCTED IN ACCORDANCE WITH GENERALLY, ACCEPTED LAND SURVEYING PRACTICES UNDER THE SUPERVISION OF A REGISTERED CIVIL ENGINEER LICENSED TO FRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA.



PEBRUARY 16, 2005

CHARLES W. CHRISTENSEN, R.C.E. 8195 Dette

ABBREVIATIONS

DATE	DESCRIPTION
02/16/05	ORIGINAL ISSUE
22/23/05	ADDED TREES

APPENDIX B Pertinent Sections from the County of San Diego Noise Ordinances

Pertinent Sections from the County of San Diego Noise Ordinance

In general, the Noise Ordinance is more restrictive than the Noise Element to the General Plan, since it specifies hourly noise limits, whereas the Noise Element specifies weighted noise limits averaged over a 24-hour period. Furthermore, many municipalities apply their noise element provisions primarily for planning and permitting purposes, while using noise ordinances primarily for enforcement and noise control of nuisance noise.

According to Chapter 4 of the County Noise Ordinance, the following noise levels are limits that depend on land use zones.

SEC. 36.404. SOUND LEVEL LIMITS.

Unless a variance has been applied for and granted pursuant to this chapter, it shall be unlawful for any person to cause or allow the creation of any noise to the extent that the one-hour average sound level, at any point on or beyond the boundaries of the property on which the sound is produced, exceeds the applicable limits set forth below except that construction noise level limits shall be governed by Section 36.410 of this chapter.

[Sound Level Limits]						
ZONE		APPLICABLE LIMIT ONE-HOUR AVERAGE SOUND LEVEL (DECIBELS)				
R-S, R-D, R-R, A-70, A-72 S-80, S-87, S-88, S-90, R-V, and R-U Use Regulations with a density of less than 11 dwelling units or less per acre.	7 a.m. to 10 p.m. 10 p.m. to 7 a.m.	50 45				
R-RO, R-C, R-M, C-30, S-84, S-86, R-V AND R-U Use Regulations with a density of 11 or more dwelling units per acre.	7 a.m. to 10 p.m. 10 p.m. to 7 a.m.	55 50				
S-94 and all other commercial zones.	7 a.m. to 10 p.m. 10 p.m. to 7 a.m.	60 55				
M-50, M-52, M-54	Anytime	70				
S-82, M-58, A-72 and all other industrial zones.	Anytime	75				

If the measured ambient level exceeds the applicable limit noted above, the allowable one hour average sound level shall be the ambient noise level. The ambient noise level shall be measured when the alleged noise violation source is not operating.

The sound level limit at a location on a boundary between two (2) zoning districts is the arithmetic mean of the respective limits for the two districts; provided however, that the one-hour average sound level limit applicable to extractive industries, including but not limited to borrow pits and mines, shall be 75 decibels at the property line regardless of the zone where the extractive industry is actually located.

Fixed-location public utility distribution or transmission facilities located on or adjacent to a property line shall be subject to the noise level limits of this section, measured at or beyond six (6) feet from the boundary of the easement upon which the equipment is located (Amended by Ord. No. 7094 (N.S.), effective 3-27-86)

SEC. 36.410. CONSTRUCTION EQUIPMENT.

Except for emergency work, it shall be unlawful for any person, including the County of San Diego, to operate construction equipment at any construction site, except as outlined in subsections (a) and (b) below:

- (a) It shall be unlawful for any person, including the County of San Diego, to operate construction equipment at any construction site on Sundays, and days appointed by the President, Governor, or the Board of Supervisors for a public fast, Thanksgiving, or holiday. Notwithstanding the above, a person may operate construction equipment on the above-specified days between the hours of 10 a.m. and 5 p.m. in compliance with the requirements of subdivision (b) of this Section at his residence or for the purpose of constructing a residence for himself, provided such operation of construction equipment is not carried on for profit of livelihood. In addition, it shall be unlawful for any person to operate construction equipment at any construction site on Mondays through Saturdays except between the hours of 7 a.m. and 7 p.m.
- (b) No such equipment, or combination of equipment regardless of age or date of acquisition, shall be operated so as to cause noise at a level in excess of seventy-five (75) decibels for more that 8 hours during any twenty-four (24) hour period when measured at or within the property lines of any property which is developed and used either in part or in whole for residential purposes.

In the event that lower noise limit standards are established for construction equipment pursuant to State or Federal law, said lower limits shall be used as a basis for revising and amending the noise level limits specified in subsection (b) above.

SEC. 36.413. MULTIPLE FAMILY DWELLING UNITS.

Notwithstanding any other provisions of this ordinance it shall be unlawful for any person to create, maintain or cause to be maintained any sound within the interior of any multiple family dwelling unit which causes the noises level to exceed those limits set forth below in any other dwelling unit:

[Interior Noise Limits]							
$Type\ of\ Land\ Use$ Allowable Interior Noise Level (dBA)							
`.		No Time	1 min in 1 hour	5 min in 1 hour			
Multifamily Residential	10 p.m. to 7 a.m. 7 a.m. to 10 p.m.	>45 >55	≤40 ≤50	≤35 ≤35			

 $(> greater than) (\leq less than or equal to)$

SEC. 36.414. GENERAL NOISE REGULATIONS.

(a) <u>General Prohibitions</u>. In the absence of objective measurement by use of a sound level meter, additionally, it shall be unlawful for any person to make, continue, or cause to be made or continued, within the limits of said County, any disturbing, excessive or offensive noise which causes discomfort or annoyance to reasonable persons of normal sensitivity residing in the area.

The characteristics and conditions which should be considered in determining whether a violation of the provisions of this section exists, include, but are not limited to, the following:

- (1) The level of noise;
- (2) Whether the nature of the noise is usual or unusual;
- (3) Whether the origin of the noise is natural or unnatural;
- (4) The level of the background noise;
- (5) The proximity of the noise to sleeping facilities;
- (6) The nature and zoning of the area within which the noise emanates;
- (7) The density of the inhabitation of the area within which the noise emanates;
- (8) The time of the day or night the noise occurs;
- (9) The duration of the noise;
- (10) Whether the noise is recurrent, intermittent, or constant; and
- (11) Whether the noise is produced by a commercial or noncommercial activity.